BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Subsidiary Diploma in Applied Science Pearson BTEC International Level 3 Foundation Diploma in Applied Science Pearson BTEC International Level 3 Diploma in Applied Science Pearson BTEC International Level 3 Diploma in Environmental Science Pearson BTEC International Level 3 Extended Diploma in Applied Science Pearson BTEC International Level 3 Extended Diploma in Environmental Science
Unit number and title	**Unit 24: Pollution and Waste Management**
Learning aim(s)	**C**: Investigate methods of waste management
Assignment title	**'Managing waste products and materials'**
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	On completion of your college studies, you have started work in a waste management company following an initial interview and recruitment exercise. Your first day on the job involves team work with two other new members of staff to efficiently separate categories of waste products and provide full explanations of the rationale for your choices. This is followed by a two day programme on waste management regulations.

Task	Produce a full report which **outlines** the current methods employed in waste management for all forms of materials. You must **explain** the process of waste management from start to finish for all material categories identified in the 8 point system. You must use researched data to illustrate fundamental problems in managing increased levels of waste. You must **explain** the reasons why waste disposal must be regulated and **identify** the sources of solid waste. **Explain** what makes an effective waste management process and **compare** the amount of waste generated between a choice of countries. Produce a case study on plastics handling and waste measures. You must clearly **identify** the positive aspects of using plastic and the negative aspects of being non-biodegradable and effect of micro-plastics to wildlife. **Explai**n the process of waste water treatment and its return to the water

	cycle using the 3 stage water treatment system. **Outline** the proposals for future waste management and technological developments to treat waste water. You will need to include the *waste hierarchy* (reduce, re-use, re-cycle) and **explain** what each involves. **Describe** the methods needed to improve processes at waste management sites and land-fill sites and methods to limit the use of pesticides and fertilisers in agriculture for a range of positive effects on the environment. **Analyse** the developments in new technological ideas using data to link developments with increased waste recycling, which may help reduce the waste materials to lower levels by introducing methods to highlight the costs to the consumer and businesses and introducing increased levels of recycling technology.
Checklist of evidence required	A report that includes: • An **outline** of waste management practices and explanation of principles involved • An **explanation** of the need to regulate waste management. • An **identification** of solid waste and comparison of waste disposal methods • A case study on plastics handling, disposal and dangers to the environment • An **explanation** of waste water treatment • An **outline** of waste treatment (waste hierarchy) and description of waste management improvements at landfill sites • The proposals to reduce pesticides and fertilisers and invest in alternative methods.

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria, you must show that you are able to:
C.D3	Evaluate methods of waste management and future proposals
C.M3	Explain current methods of waste management and future proposals
C.P4	Describe current methods of managing waste
C.P5	Describe future proposals for waste management
Sources of information to support you with this Assignment	en.wikipedia.org › wiki › Waste_management www.conserve-energy-future.com › waste-management-and-waste-dis... www.britannica.com › technology › waste-disposal-system www.ft.com › stream

1.	www.sciencedirect.com › book › understanding-plastics-recycling en.wikipedia.org › wiki › Economics_of_plastics_processing en.wikipedia.org › wiki › Sewage_treatment www.sciencedirect.com › topics › earth-and-planetary-sciences › waste-... ec.europa.eu › environment › waste › legislation